

LESSON 10: The Periodic Table

29. What is the main difference between the organization of the modern periodic table and Mendeleev's periodic table?

Mendeleev: organized by atomic weight

Modern: organized by atomic #

30. What are the names of Groups 1, 2, 17, and 18, respectively?

1: alkali metals

17: halogens

2: alkaline-earth metals

18: noble gases

31. On the periodic table, be sure to know the location of:

atomic number

group

period

average atomic mass

metals

nonmetals

metalloids

alkali metals

noble gases

alkaline earth metals

halogens

transition metals

lanthanides

actinides

main group elements

LESSON 11: Models of the Atom

32. Sketch, name, and describe the main features of each scientist's model of the atom:

a. Dalton

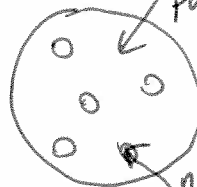
Solid Sphere



indivisible
Sphere

b. Thomson

Plum Pudding

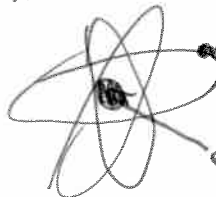


positive fluid

negative electrons

c. Rutherford

Nuclear Model

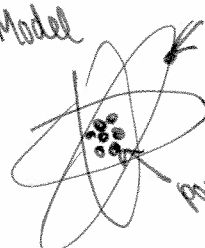


negative
electrons

positive
nucleus

d. Rutherford

Proton Model

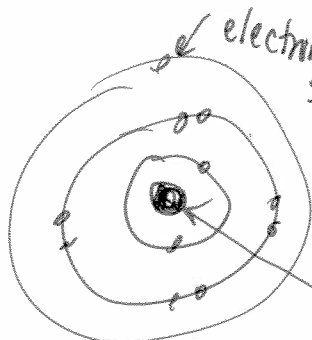


negative
electrons

positive
particles in
nucleus

e. Bohr

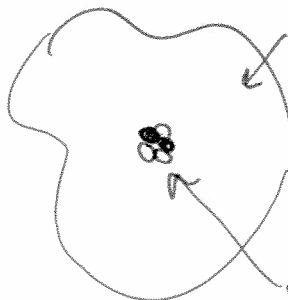
electrons in
specific orbitals



positive
nucleus

f. Heisenberg, Chadwick

electron cloud



protons and
neutrons in
nucleus

Solar
System
Model